

Russellville Water Dept Water Quality Report for year 2014

Russellville KY, 42276

Meetings: City Hall

Meeting Dates and Time:

1st & 3rd Tue. after 1st Mon.

Phone CCR Contact:

Manager:

Melvin Smith 270-726-5069

KY0710378

Melvin Smith 270-722-2230

This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide our customers with a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product. Water is the most indispensable product in every home and we ask everyone to be conservative and help us in our efforts to protect the water source

Russelville(A=in table) purchases water from the Logan-Todd(B=in table) Water Commission (LTRWC). The intake is located in the Cumberland River which is classified as surface water. The protection area taken into consideration is from the LTRWC intake point to the Clarksville Water System intake upstream. Urban nonpoint source runoff may contribute contamination to the water supply by delivering sediment, oil and grease, road salt, fertilizers, pesticides, nutrients and other contaminants. Transportation accidents can threaten water quality. Tractor-trailers, barges, rail cars and pipelines all have the potential for adverse impact of our water supply. A state primary road - Tn 13 - crosses the Cumberland River, as do the Cunningham Bridge and the L&N Railroad bridge. For source water protection information, contact LTRWC (270) 483-6990 located at 248 Tower Street in Guthrie, Ky. or contact the central office of the Tn. Division of Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791)

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities).

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Some or all of these definitions may be found in this report:

Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. If present, elevated levels of lead can MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - the level of a contaminant in drinking water below which there is for pregnant women and young children. no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two exposure by flushing your tap for 30 years or a single penny in \$10,000.

Parts per billion (ppb) - or micrograms per liter, (µg/L). One part per billion corresponds to one minute in 2,000 for drinking or cooking. If you are years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in may wish to have your water tested. \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one testing methods, and steps you can take penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers. Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Information About Lead:

cause serious health problems, especially Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead seconds to 2 minutes before using water concerned about lead in your water, you Information on lead in drinking water, to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

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The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old.

	Allowable Levels No more than 1 NTU* Less than 0.3 NTU in 95% monthly samples		Highest Single Measurement 0.091		Lowest	Violation	Likely Source of Turbidity	
T. A. L. OTTI D. TT					Monthly '			
Turbidity (NTU) TT					100	No		
* Representative samples							Soil runoff	
of filtered water								
Regulated Contamina	ant Test R	esults						
Contaminant			Report		Range	Date of	Violation	Likely Source of
[code] (units)	MCL MCLG		Level	of Detection		Sample		Contamination
Radioactive Contami	nants						•	
Combined radium	5	0			to	T		1
(pCi/L)		"	0.85	0	to 1.7	Jan-12	No	Erosion of natural deposits
(Pere)			0.00	(3)	to	Jan-12	140	Droson of natural deposits
Inorganic Contamina	nts				10			
Barium	T				to		T	
[1010] (ppm)	2	2	0.025	0.025	to 0.025	Jun-14	No	Drilling wastes; metal refineries;
Canada Grand	1 -			.010.00	to	Jun 17	110	erosion of natural deposits
Copper [1022] (ppm)	AL=		0.093	0	0.227			
sites exceeding action level	1.3	1.3	(90 th	1000	to	Sep-13	No	Corrosion of household plumbing
0	1		percentile)			Sep-15	110	systems
Fluoride			percentite		to			
[1025] (ppm)	4	4	0.94		to 0.94	Jun-14	No	Water additive which promotes
[ross] (ppm)	7	3 1	0.54	0.54	to 0.94	3411-14	140	strong teeth
Lead [1030] (ppb)	AL =		5.6		10	-	_	
sites exceeding action level	15	0	(90 th	0	to 40	Sep-13	No	Corrosion of household plumbing
sites exceeding action level	1.5	"	100	U	10 40	Sep-15	INO	systems
Nitrate	_	-	percentile)		to	_	_	- 4
[1040] (ppm)	10	10	0.26	0.26		P.1.14	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of
[1040] (ppm)	10	10	0.20	0.26	to 0.26	Feb-14	INO	natural deposits
Disinfectants/Disinfec	tion Dame	enduate and	Duggungong		to			mitarat deposits
Total Organic Carbon (ppm)		oducts and	rrecursors		400	_		
			1.70		to		2.700	N
(report level=lowest avg.	TT*	N/A	1.69	1.45	to 1.94	Jul-05	No	Naturally present in environment.
range of monthly ratios)					to			
*Monthly ratio is the % TOO				quired. Ann	iual average m	iust be 1.00 or gre	ater for com	pliance.
Chlorine	MRDL	MRDLG	1.55					Water additive used to control
(ppm)	= 4	= 4	(highest	0.86	to 2.18	N/A	No	microbes.
HAA (mah) (Cama 2)			average)			+	-	
HAA (ppb) (Stage 2)			4.0			****		Byproduct of drinking water
[Haloacetic acids]	60	N/A	38		to 50	2014	No	disinfection
	-		(average)	(range of	individual site	es)	-	The same of the sa
TTHM (ppb) (Stage 2)	2000		1992	12000	1000 8000	127		Byproduct of drinking water
[total trihalomethanes]	80	N/A	53	29	to 78	2014	No	disinfection.
			(average)	(range of	individual site	s)		

Our water system violated one or more drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 2014 compliance period we did not complete all monitoring or testing for Chlorine and therefore cannot be sure of the quality of your drinking water during that time.

There is nothing you need to do at this time. You do not need to use an alternative (e.g., bottled) water supply.

The table below lists the contaminants we did not properly test for during the last year, how often we are supposed to sample for these contaminants and how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples were taken.

contaminant	required sampling frequency	number of samples taken	samples should have been taken	when samples were or will be taken
Chlorine	4 Per Day	4 Per Day	Aug 29-31 2014	Aug 29-31 2015

What happened? Who is at risk? What is being done?

In Aug 2014 the City of Russellville Water Dept. pulled the required Chlorine Samples but failed to report all 31 days. The City of Russellville Water Dept. resubmitted the results to the Division of Water showing the three days that was left off the original paper work.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.